

METHOD AND SYSTEM FOR REDUCING FALSE DETECTIONS OF ACCESS
SIGNALS

ABSTRACT OF THE DISCLOSURE

A demodulator determines a time of arrival of an access signal. Access signals that do not result in a time of arrival are discarded. Upon obtaining a time of arrival, the access signal is equalized and a training sequence of bits in the equalized access signal is compared to a reference sequence of bits. A burst confidence metric is obtained in the comparison by summing the number of matching bits. The access signal is discarded if the burst confidence metric is less than a threshold number. A decoder performs a parity check on access signals that have a burst confidence metric exceeding the threshold number. The access signal is discarded if the parity check fails. Upon passing the parity check, the access signal is re-encoded and compared to its received version. If a number of errors from the comparison exceeds a bit error threshold, the access signal is discarded.